AQC0708

Nanopublication — Computational Image Analysis - AQC0708

by Arnaud Quercy · Nocturnal Visions · 2024

Claim 1: Computational Image Analysis - AQC0708

> The artwork Nocturnal [1] Visions (AQC0708) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 1400x1400 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		333333	36.1	gray	darkslategray
2		7F3951	15.5	red	burnt sienna
3		6F2E47	13.3	red	dusty mauve
4		490D32	11.0	red	very dark red
5		57163C	8.8	red	darkslategrey
6		904760	5.9	red	dimgray
7		E76C05	5.8	orange	chocolate
8		81549C	2.6	red-violet	blue gray
9		F8F7F7	0.5	white	white
10		CFB6BF	0.4	red	silver
11		7B77BD	0.3	violet	slateblue [Accent]

Color Families:

Family	%
red	55.0
gray	36.1
orange	5.8
red-violet	2.6
white	0.5
violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
7B77BD	violet	slateblue	40.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.118
Mean Local Roughness	0.023
Roughness Uniformity	0.033
Edge Density	0.084
Mean Gradient Magnitude	0.146
Gradient Variance	0.089
Gradient Smoothness	0.0
Directional Coherence	0.071
Pattern Complexity	0.144
Pattern Repetition	1.0
Detail Frequency Ratio	0.661
Spatial Variation	0.07
Texture Consistency	0.425

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.262
Brightness Variance	0.118
Brightness Uniformity	0.552
Brightness Skewness	2.315
Brightness Entropy	5.498
Rms Contrast	0.118
Michelson Contrast	0.947
Weber Contrast	0.604
Mean Local Contrast	0.021
Contrast Uniformity	0.0
Dynamic Range	0.973
Effective Dynamic Range	0.373
Shadow Percentage	80.78
Midtone Percentage	18.32
Highlight Percentage	0.9
Shadow Clipping	0.0
Highlight Clipping	0.432
Tonal Balance	0.0
Fine Contrast	0.015
Medium Contrast	0.027
Coarse Contrast	0.034
Multiscale Contrast Ratio	0.426
Edge Contrast	0.146
Contrast Clustering	0.575

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.777
Color Clustering	0.0
Color Transition Smoothness	0.608
Transition Uniformity	0.419
Sharp Transition Ratio	0.1
Transition Directionality	0.021

Metric	Value
Mean Saturation	0.422
Saturation Variance	0.114
Low Saturation Ratio	0.373
Medium Saturation Ratio	0.392
High Saturation Ratio	0.235
Saturation Clustering	0.998
Hue Concentration	0.935
Complementary Balance	0.0
Analogous Dominance	0.947
Temperature Bias	0.957

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2024). Nocturnal Visions — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0708.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/nocturnal-visions_7vk.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

2ef6ab436ee726c7c0e50f045ee13e68d975a688ab-f8752e9630391319f900c8

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